



SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:
EP 21 83 20 53

Classification of the application (IPC):

G01N 29/46, G01N 29/42, G01N 29/24, G01N 29/12, G01N 29/04, G01N 33/38 G01N

Technical fields searched (IPC):

G01N

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X Y A	NARAYANAN ARUN ET AL: "Embedded PZT Sensor for Monitoring Mechanical Impedance of Hydrating Cementitious Materials" <i>JOURNAL OF NONDESTRUCTIVE EVALUATION</i> , PLENUM PUBLISHING CORPORATION. NEW YORK, US, 21 August 2017 (2017-08-21), vol. 36, no. 4, DOI: 10.1007/S10921-017-0442-4, ISSN: 0195-9298, pages 1-13, XP036368929 * figures 2,3,4 * * paragraph [0003] * * paragraph [0007] *	1-3, 8-10, 12-15 11 4-7
A	US 7987728 B2 (UNIV HOUSTON SYSTEM [US]) 02 August 2011 (2011-08-02) * figure 2 *	3
A	KIM JUNKYEONG ET AL: "Early-age concrete strength estimation based on piezoelectric sensor using artificial neural network" <i>PROCEEDINGS OF SPIE, IEEE</i> , US, 10 April 2014 (2014-04-10), vol. 9063, DOI: 10.1117/12.2044982, ISBN: 978-1-62841-730-2, pages 906316-906316, XP060031332 * figure 1 *	3
Y	KOLLURU SUBRAMANIAM V ET AL: "KOLLURU et al., Determining Elastic Properties of Concrete Using Vibrational Resonance Frequencies of Standard Test Cylinders" <i>CEMENT, CONCRETE, AND AGGREGATES, CCAGDP</i> , 01 December 2000 (2000-12-01), vol. 22, pages 81-89, XP055883493 * the whole document *	11

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search The Hague	Date of completion of the search 26 June 2024	Examiner D'Inca, Rodolphe
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CATEGORY OF CITED DOCUMENTS

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| X: particularly relevant if taken alone | P: intermediate document |
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ANNEX TO SUPPLEMENTARY EUROPEAN
SEARCH REPORT

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 26-06-2024
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 7987728	B2	02-08-2011	NONE	